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1 [MiniMesh: an opportunistic transmission protocol for the IEEE 802.15.3 MAC](#)

Kwan-Wu Chin, Darryn Lowe
October 2007 ACM SIGMOBILE Mobile Computing and Communications Review,
Volume 11 Issue 4

Publisher: ACM


Full text available: [pdf\(550.59 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)


Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

This paper proposes MiniMesh, an opportunistic transmission mechanism for the IEEE 802.15.3 medium access control (MAC) protocol; a key technology to realizing wireless personal area networks (WPANs). MiniMesh exploits the varying channel conditions ...

2 The holes problem in wireless sensor networks: a survey

 Nadeem Ahmed, Salil S. Kanhere, Sanjay Jha
April 2005 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 9 Issue 2

Publisher: ACM


Full text available:  [pdf\(433.85 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 523, Citation Count: 1

Several anomalies can occur in wireless sensor networks that impair their desired functionalities i.e., sensing and communication. Different kinds of holes can form in such networks creating geographically correlated problem areas such as coverage holes, ...

3 Distributed low-cost backbone formation for wireless ad hoc networks

 Yu Wang, WeiZhao Wang, Xiang-Yang Li
May 2005 MobiHoc '05: Proceedings of the 6th ACM international symposium on Mobile ad hoc networking and computing

Publisher: ACM

Full text available:  [pdf\(370.32 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 213, Citation Count: 8

Backbone has been used extensively in various aspects (*e.g.*, routing, route maintenance, broadcast, scheduling) for wireless networks. Previous methods are mostly designed to minimize the backbone size. However, in many applications, it is desirable ...

Keyw ords: clustering, connected dominating set, localized algorithm, weighted, wireless ad hoc/sensor networks

4 A coordinate-based approach for exploiting temporal-spatial diversity in wireless mesh networks

 Hyuk Lim, Chaegwon Lim, Jennifer C. Hou
September 2006 MobiCom '06: Proceedings of the 12th annual international conference on Mobile computing and networking

Publisher: ACM

Full text available:  [pdf\(320.45 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 673, Citation Count: 0

In this paper, we consider the problem of mitigating interference and improving network capacity in wireless mesh networks from the angle of *temporal-spatial diversity*. In a nutshell, while the achievable throughput on a multihop wireless path ...


Keyw ords: intra-/inter-flow interference, temporal-spatial, wireless mesh network

5 Delivering live multimedia streams to mobile hosts in a wireless internet with multiple content aggregators

Cristian Hesselman, Henk Eertink, Ing Widya, Erik Huizer

June Mobile Networks and Applications, Volume 10 Issue 3
2005

Publisher: Kluwer Academic Publishers

Full text available:  pdf(1.44 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 152, Citation Count: 0

We consider the distribution of channels of live multimedia content (e.g., radio or TV broadcasts) via multiple content aggregators. In our work, an aggregator receives channels from content sources and redistributes them to a potentially large number ...

Keyw ords: mobility, multimedia content distribution, wireless networking


6 A comparison of opportunistic and deterministic forwarding in mobile multihop wireless networks



Jonghyun Kim, Stephan Bohacek

June MobiOpp '07: Proceedings of the 1st international MobiSys workshop on
2007 Mobile opportunistic networking

Publisher: ACM

Full text available:  pdf(422.81 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 143, Citation Count: 0

While opportunistic packet forwarding has been extensively studied in the case of single hop communication, only recently has opportunistic forwarding for multihop networks been explored. One key aspect of opportunistic forwarding is that the node that ...

Keyw ords: MANET routing, opportunistic forwarding, wireless


7 Supporting multimedia streaming between mobile peers with link availability prediction



Min Qin, Roger Zimmermann, Leslie S. Liu

November 2005 MULTIMEDIA '05: Proceedings of the 13th annual ACM international conference on Multimedia

Publisher: ACM

Full text available:  [pdf\(979.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 128, Citation Count: 3

Numerous types of mobile devices are now popular with end users, who increasingly use them to carry multimedia content on the go. As wireless connectivity is integrated with more handhelds, streaming multimedia content among mobile peers is becoming ...

Keywords: link availability, mobile ad-hoc networks, mobility models, stationary regime, streaming


8 PROSAN: probabilistic opportunistic routing in SANETs



Hoang Anh Nguyen, Silvia Giordano

September 2007 SANET '07: Proceedings of the First ACM workshop on Sensor and actor networks

Publisher: ACM

Full text available:  [pdf\(313.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 68, Citation Count: 0

SANET react to a sensed event by means of actuators. The sensor nodes thus need to communicate with actuators, and this can involve several hops if the network is large. To reduce unbalanced traffic distribution and costs, sensor networks can be modeled ...

Keywords: delivery probability, evidence, node profile, opportunistic networks, probabilistic routing, weight


9 IP-enabled wireless sensor networks and their integration into the internet



Karl Mayer, Wolfgang Fritsche

May InterSense '06: Proceedings of the first international conference on
2006 Integrated internet ad hoc and sensor networks

Publisher: ACM

Full text available:  [pdf\(409.38 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 548, Citation Count: 0

Sensor networks become more and more important in various application areas and several application scenarios require connectivity between sensor network and the Internet. Especially scenarios of disaster management would benefit from IP-enabled sensor ...

Keywords: IP, IPv6, ad hoc networks, autoconfiguration, disaster management, wireless sensor networks

10 Crossaid (XAid): towards a new scalable cross-layer architecture for manets



Lamia Romdhani, Christian Bonnet

October MobiWac '07: Proceedings of the 5th ACM international workshop on
2007 Mobility management and wireless access

Publisher: ACM

Full text available:  [pdf\(393.19 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 26, Citation Count: 0

Nowadays, the cross-layer design approach, is the most relevant concept in mobile ad-hoc networks. It is obvious that designing this architecture for MANETs could be used for more than one objective such as QoS provisioning, security, and multicast transfer. ...

Keywords: MANET, architecture, cross-layer, routing


11 Methods for information server selection



David Hawking, Paul Thistlewaite

January ACM Transactions on Information Systems (TOIS), Volume 17 Issue
1999 1

Publisher: ACM

Full text available:  [pdf\(283.76 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 57, Citation Count: 39

The problem of using a broker to select a subset of available information servers in order to achieve a good trade-off between document retrieval effectiveness and cost is addressed. Server selection methods which are capable of operating in the absence ...

Keyw ords: Lightweight Probe queries, information servers, network servers, server ranking, server selection, text retrieval

12 Routing in a delay tolerant network



Sushant Jain, Kevin Fall, Rabin Patra

August ACM SIGCOMM Computer Communication Review , Volume 34 Issue 4 2004

Publisher: ACM

Full text available: [pdf\(527.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 41, Downloads (12 Months): 521, Citation Count: 36

We formulate the delay-tolerant networking routing problem, where messages are to be moved end-to-end across a connectivity graph that is time-varying but whose dynamics may be known in advance. The problem has the added constraints of finite buffers ...

Keyw ords: delay tolerant network, routing

13 Routing in a delay tolerant network



Sushant Jain, Kevin Fall, Rabin Patra

August SIGCOMM '04: Proceedings of the 2004 conference on Applications, 2004 technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available: [pdf\(527.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 41, Downloads (12 Months): 521, Citation Count: 36


We formulate the delay-tolerant networking routing problem, where messages are to be moved end-to-end across a connectivity graph that is time-varying but whose dynamics may be known in advance. The problem has the added constraints of finite buffers ...

Keyw ords: delay tolerant network, routing

14 [BlueMesh: degree-constrained multi-hop scatternet formation for Bluetooth networks](#)

Chiara Petrioli, Stefano Basagni, Imrich Chlamtac
February Mobile Networks and Applications, Volume 9 Issue 1
2004

Publisher: Kluwer Academic Publishers


Full text available:  [pdf\(260.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 101, Citation Count: 4


In this paper we describe *BlueMesh*, a new protocol for the establishment of *scatternets*, i.e., multi-hop wireless networks of Bluetooth devices. BlueMesh defines rules for device discovery, piconet formation and piconet interconnection ...

Keyw ords: Bluetooth technology, ad hoc networks, scatternet formation

15 [JANUS: towards robust and malicious resilient routing in hybrid wireless networks](#)

 Bogdan Carbutar, Ioanis Ioannidis, Cristina Nita-Rotaru
October WiSe '04: Proceedings of the 3rd ACM workshop on Wireless security
2004

Publisher: ACM

Full text available:  [pdf\(169.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 76, Citation Count: 1


In this paper we investigate and provide solutions for security threats in the context of hybrid networks consisting of a cellular base station and mobile devices equipped with dual cellular and ad-hoc (802.11b) cards. The cellular connection is used ...

Keyw ords: hybrid wireless networks, routing, security

16 [Comparative performance evaluation of scatternet formation protocols for networks of bluetooth devices](#)

Stefano Basagni, Raffaele Bruno, Gabriele Mambrini, Chiara Petrioli
March Wireless Networks, Volume 10 Issue 2
2004

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(375.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 95, Citation Count: 2

This paper describes the results of the first ns2-based comparative performance evaluation among four major solutions presented in the literature for forming multi-hop networks of Bluetooth devices (*scatternet formation*). The four protocols considered ...

Keyw ords: bluetooth, performance evaluation, scatternet formation, wireless networks

17 ACM SIGMOBILE Mobile Computing and Communications Review: Volume 9



Issue 4

October issue Volume 9 Issue 4
2005

Publisher: ACM

Additional Information: [full citation](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

18 Asymptotic analysis of multistage cooperative broadcast in wireless networks

Birsen Sirkeci-Mergen, Anna Scaglione, Gökhan Mergen

June IEEE/ ACM Transactions on Networking (TON), Volume 14 Issue SI
2006

Publisher: IEEE Press


Full text available:  [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 139, Citation Count: 2

Cooperative broadcast aims to deliver a source message to a locally connected network by means of collaborating nodes. In traditional architectures, node cooperation has been at the network layer. Recently, physical layer cooperative schemes have been ...

Keyw ords: broadcast, continuum, cooperative communication, limiting behavior of dense networks, multihop diversity, phase transition, wireless networks

19 [On interdomain routing security and pretty secure BGP \(psBGP\)](#)

 P.C. van Oorschot, Tao Wan, Evangelos Kranakis
July 2007 ACM Transactions on Information and System Security (TISSEC),
Volume 10 Issue 3
Publisher: ACM

Full text available:  [pdf\(469.49 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 468, Citation Count: 0

It is well known that the Border Gateway Protocol (BGP), the IETF standard interdomain routing protocol, is vulnerable to a variety of attacks, and that a single misconfigured or malicious BGP speaker could result in large-scale service disruption. In ...

Keyw ords: BGP, authentication, certificates, interdomain routing, public-key infrastructure, secure routing protocols, trust

20 [Secure pairwise key establishment in large-scale sensor networks: An area partitioning and multigroup key predistribution approach](#)

 Dijiang Huang, Deep Medhi
August 2007 ACM Transactions on Sensor Networks (TOSN), Volume 3 Issue 3
Publisher: ACM

Full text available:  [pdf\(710.61 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 280, Citation Count: 0

Existing pairwise key establishment schemes for large-scale sensor networks are vulnerable to various passive or active attacks. We classify attacks as selective node capture attacks, node fabrication attacks, and insider attacks. In order to improve ...

Keyw ords: Sensor, insider attack, node fabrication, selective node capture

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